

BUTLER UNIVERSITY COLLEGE OF PHARMACY AND HEALTH SCIENCES AND COLLEGE OF BUSINESS

DUAL PHARMD-MBA PROGRAM CURRICULUM (Updated 9-09-10; 08-02-11)

| Curriculum Year | Courses (Fall Semester) | SEM HRS | Courses (Spring Semester) | SEM HRS | Courses (Summer Term) + | SEM HRS |
|--|---|---------------------------------|--|--|--|----------------|
| First Prepharmacy Year | <ul style="list-style-type: none"> ▪ FYS 101 First Year Seminar ▪ CH 105 General Chemistry ▪ MA 106 Calculus and Analytical Geom I (Fall or Spring) ▪ PX 100 Health Science Seminar ▪ Core (T&I, PCA, SW) | 3 5 5 1 3 | <ul style="list-style-type: none"> ▪ FYS 102 First year Seminar ▪ CH 106 General Chemistry (with lab) ▪ BI 105 Introductory Cell Biology (Fall or Spring) ▪ COM 102 Public Speaking (Fall or Spring) ▪ PWB Physical Well Being ▪ Core (T & I, PCA, SW) | 3 5 3 2 1 3 | <ul style="list-style-type: none"> ▪ <i>AC 203 Introduction to Accounting*</i> ▪ <i>AC 204 Introduction to Accounting II</i> | 3 3 |
| | Total Semester Hours | 17 | Total Semester Hours | 17 | | |
| Second Prepharmacy Year | <ul style="list-style-type: none"> ▪ GHS 201-209 Global and Historical Studies (Must complete two different courses in course selection) ▪ CH 351 Organic Chemistry (with lab) ▪ PX 311 Human Anatomy (without lab) ▪ PX325 Ethical Issues in Health Care ▪ Core (T & I, PCA, SW) ▪ <i>EC231 Principles of Microeconomics</i> | 3 5 3 3 3 3 | <ul style="list-style-type: none"> ▪ GHS201-209 Global & Historical Studies (Must complete two different courses in course selection) ▪ CH 352 Organic Chemistry (with lab) ▪ PX 315 Human Physiology (without lab) ▪ BI 325 Pathogenic Microbiology (with lab) ▪ PX200 Intro to Prof Practice | 3 5 4 3 2 17 | <ul style="list-style-type: none"> ▪ <i>EC 232 Principles of Macroeconomics*</i> | 3 |
| | Total Semester Hours | 20 | Total Semester Hours | 17 | | |
| First Professional Year (Third Year) | <ul style="list-style-type: none"> ▪ RX301 Intro to Pharmacy Practice Experience 1 ▪ RX 350 Intro to Pharmaceutical Care 1 ▪ BI 323 Immunology ▪ RX 312 Clinical Biochemistry ▪ RX 316 Pathophysiology ▪ RX327 Intro to Drug Information ▪ <i>MS 100</i> | 0 3 2 4 4 1 1 | <ul style="list-style-type: none"> ▪ RX 351 Intro to Pharmaceutical Care 2 ▪ RX 318 Introduction to Principles of Drug Action ▪ RX 324 Clinical Assessment ▪ RX314 Pharmaceutical Biotechnology ▪ <i>RX320 Delivery of Health Care (may be waived)</i> ▪ <i>MS264 Statistics</i> | 4 5 2 3 2 3 | <ul style="list-style-type: none"> ▪ <i>MS 265 Information Technology*</i> ▪ <i>MK 380 Principles of Marketing**♥Δ</i> | 3 3 |
| | Total Semester Hours | 15 | Total Semester Hours | 19 | | |
| Second Professional Year (Fourth Year) | <ul style="list-style-type: none"> ▪ RX401 Intro to Pharmacy Practice Experience 2 ▪ RX 411 Principles of Drug Action 1 ▪ RX 413 Therapeutics 1 ▪ RX403 Therapeutics 1 Case Studies ▪ RX 421 Introduction to Dosage Forms ▪ RX 415 Self-care and Health Promotion 1 ▪ <i>MG 360 Organizational Behavior♥Δ</i> | 0 4 3 1 4 2 3 | <ul style="list-style-type: none"> ▪ RX 412 Principles of Drug Action 2 ▪ RX 414 Therapeutics 2 ▪ RX404 Therapeutics 2 Case Studies ▪ RX 422 Advanced Dosage Forms ▪ RX 416 Self-care and Health Promotion 2 ▪ <i>FN340 Corporate Finance♥Δ</i> ▪ <i>Application to MBA Program and take GMAT</i> | 4 3 1 4 3 3 18 | <ul style="list-style-type: none"> • <i>MBA525 Managerial Economics</i> • <i>MBA520 Managerial Accounting</i> • <i>MBA 505 Gateway Course</i> | 3 3 1 |
| | Total Semester Hours | 17 | Total Semester Hours | 18 | | |
| Third Professional Year (Fifth Year) | <ul style="list-style-type: none"> ▪ RX501 Intro to Pharmacy Practice Experience 3 ▪ RX 511 Principles of Drug Action 3 ▪ RX 513 Therapeutics 3 ▪ RX503 Therapeutics 3 Case Studies ▪ RX 522 Pharmacokinetics and Biopharmaceutics ▪ RX527 Biostatistics and Research Design ▪ <i>MBA 510 Leadership**Δ</i> | 0 4 3 1 3 3 3 | <ul style="list-style-type: none"> ▪ RX 514 Therapeutics 4 ▪ RX 504 Therapeutics 4 Case Studies ▪ RX528 Advanced Drug Information ▪ RX526 Pharmacy and the Law ▪ RX523 Clinical Pharmacokinetics ▪ RX 500 Intro to Experiential Rotations ▪ <i>MBA 530 Financial Management**Δ</i> ▪ <i>MBA 535 Marketing Management and Research Methods**Δ</i> | 3 1 2 3 3 1 3 3 19 | <ul style="list-style-type: none"> ▪ <i>M 515 Legal and Ethical Operation of Business**</i> ▪ RX 6— Two Experiential On-Site Rotations (4 credit hours each) | 3 8 |
| | Total Semester Hours | 17 | Total Semester Hours | 19 | | |

| | | | | | |
|---------------------------------------|---|-----------|---|-----------|--|
| Fourth Professional year (Sixth Year) | <ul style="list-style-type: none"> ▪ RX 6— Three Experiential On-Site Rotations (4 credit hours each) ▪ <i>MBA 592— One On-Site Management Rotation Δ</i> ▪ RX 607 - Research Project ▪ <i>MBA 540 Operation Management and Systems**</i> | 12 | <ul style="list-style-type: none"> ▪ RX 6— Three Experiential On-Site Rotations (4 credit hours each) ▪ <i>MBA 593— One On-Site Management Rotation Δ</i> ▪ RX 608 - Research Project ▪ <i>MBA 545 Integrated Capstone Experience**</i> | 12 | Global Requirement: (2hrs) <ul style="list-style-type: none"> • International Finance or • International Marketing or • International Management or • Global Study or internship experience |
| | Total Semester Hours | 20 | Total Semester Hours | 20 | |

♥ For those students who graduate from Butler University with the simultaneous awarding of the PharmD and MBA degrees: COPHS waives the completion of two elective rotations, and substitutes 8 hours of pre-MBA course work. Note: This waiver is only valid if the two degrees are conferred simultaneously.

*Interchangeable UG (undergraduate) courses that can be taken in any semester as long as prerequisites are satisfied; additional tuition is required for summer courses or if > 20 credit hours per semester; Students enrolled in the PharmD/MBA program are charged the CBA/MBA tuition rate for summer classes taken after the first two prepharmacy years.

**Interchangeable MBA courses; must be admitted into the MBA program prior to taking courses with M_ _ _; check prerequisites and course schedule from the College of Business

+ Based on availability; check course schedule

Δ Courses taken through the College of Business that meet requirements for both degrees.

Italics denote courses from the College of Business required for the MBA degree; or prerequisites for certain courses in the program.

PREREQUISITES FOR MBA PROGRAM (OR BUSINESS MINOR)*

| Undergraduate Courses** | Credit Hours |
|--------------------------------------|--------------|
| AC 203 Introduction to Accounting | 3 |
| AC 204 Introduction to Accounting II | 3 |
| EC 231 Principles of Microeconomics | 3 |
| EC 232 Principles of Macroeconomics | 3 |
| MS 264 Statistics | 3 |
| FN 340 Corporation Finance | 3 |
| MK 380 Principles of Marketing | 3 |
| MG 360 Organizational Behavior*** | 3 |
| M 265 Information Technology | 3 |
| MS 100 Computer Proficiency Exam | 1 |

*Prerequisite courses need to be completed by the end of fourth year to stay on target and obtain an MBA degree in six years

**A "B" or higher is required to use these courses as MBA prerequisites

MBA COURSES*

| Courses | Credit Hours |
|---|--------------|
| M505 Gateway Experience | 1 |
| M 510 Leadership | 3 |
| M 515 Legal and Ethical Operation of Business | 3 |
| M 520 Managerial Accounting | 3 |
| M 525 Managerial Economics | 3 |
| M 530 Financial Management | 3 |
| M 535 Marketing Management and Research Methods | 3 |
| M 540 Operations Management and Systems | 3 |
| M 545 Integrated Capstone Experience | 3 |

*Must be admitted in the MBA program prior to taking these courses

SELECTION OF EXPERIMENTAL ROTATIONS*

▪ **9 Required Rotations:**

- 1 General Medicine, or Internal Medicine, or Family Practice Rotations
- 2 Acute Care - Inpatient
- 2 Community Pharmacy Rotation
- 1 Ambulatory Care Rotation
- 1 Underserved Rotations
- 2 Management Rotations (required) in the following settings:
Hospital, Community, Managed Care, or Administrative

▪ **1 Elective Rotations:**

- 1 Elective Rotation (patient care rotation)

* Ten 4- week rotations total required within a 12-month period; Rotations per semester may vary depending on selected months off